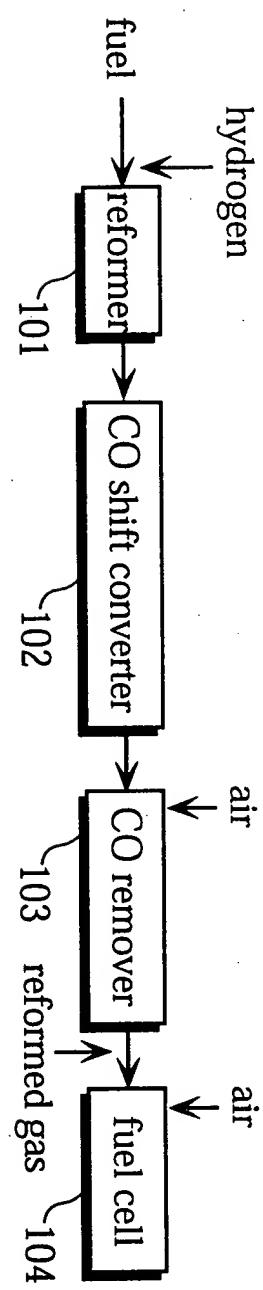


Fig. 1



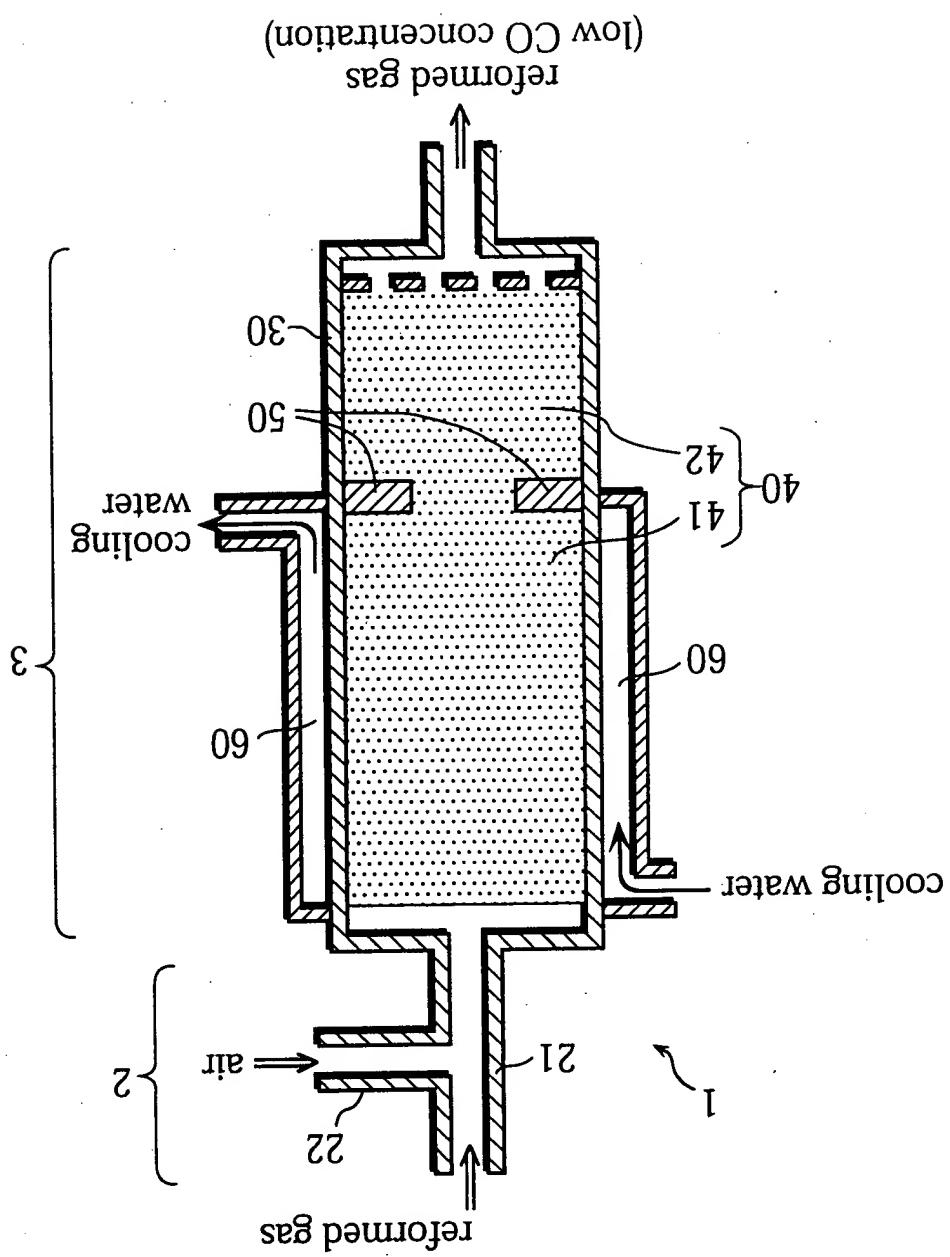


Fig. 2

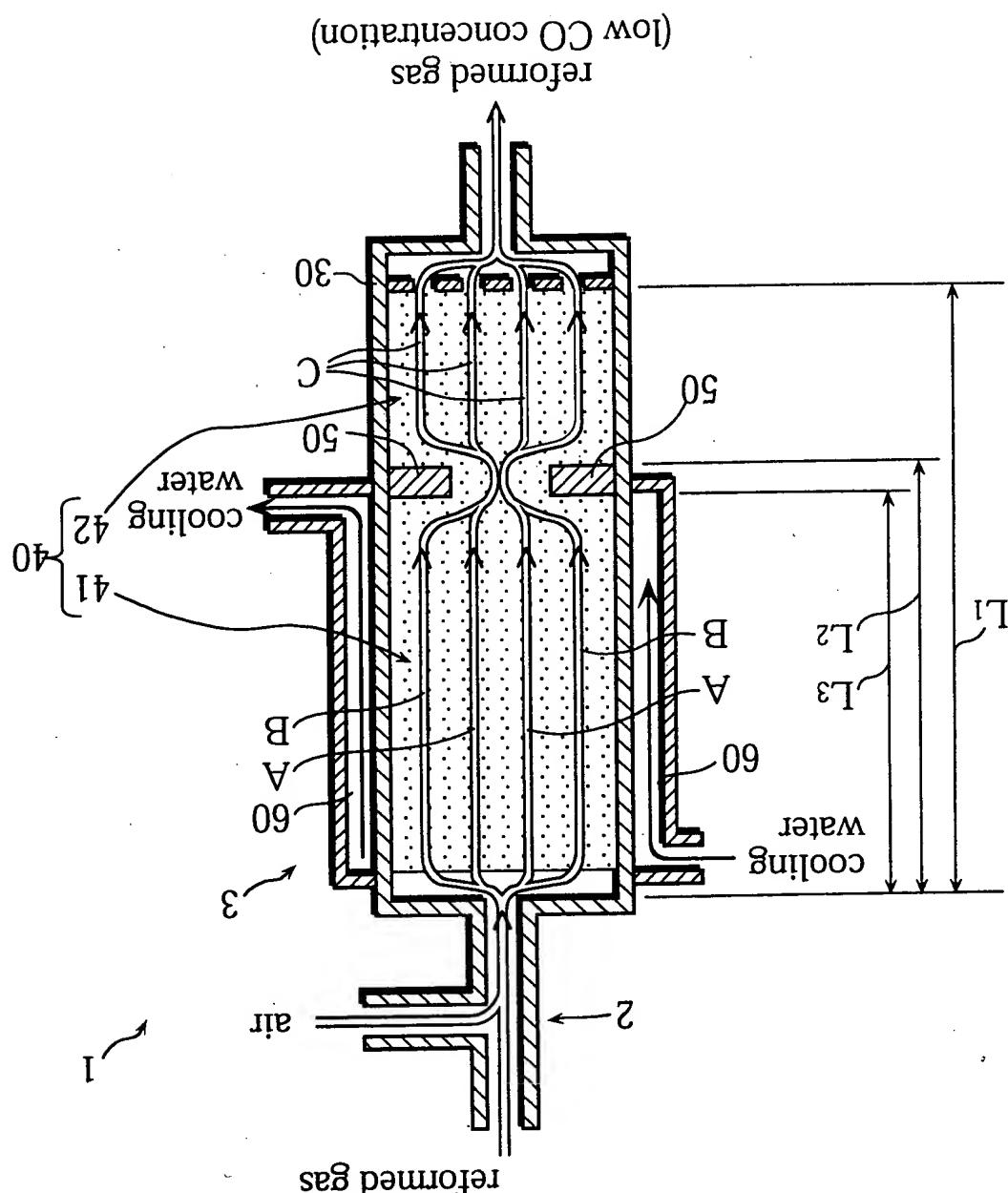


Fig. 3

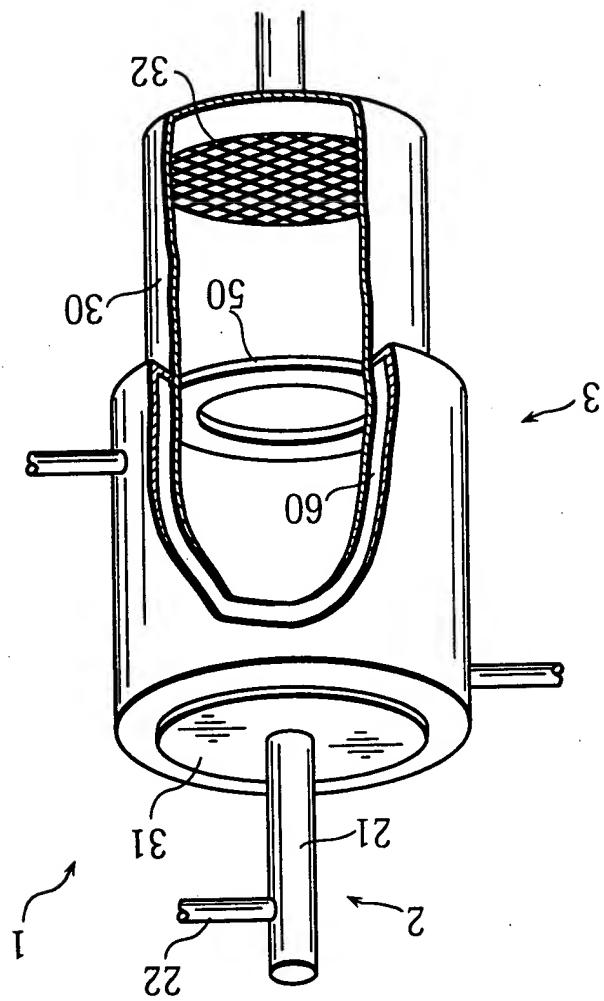


Fig. 4

033027023-2000000

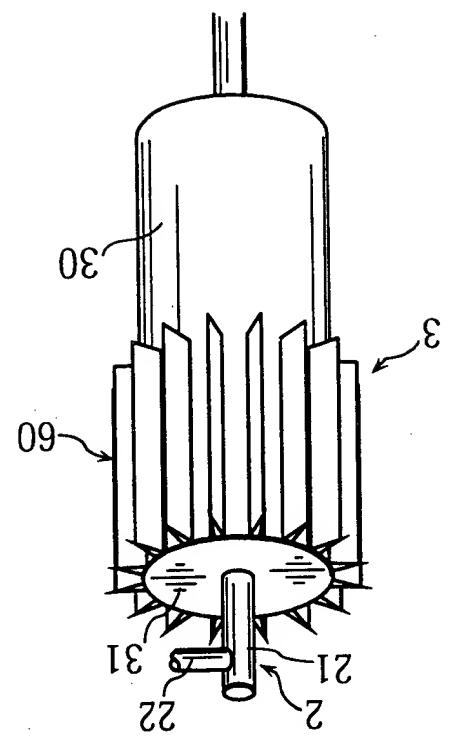


Fig. 5C

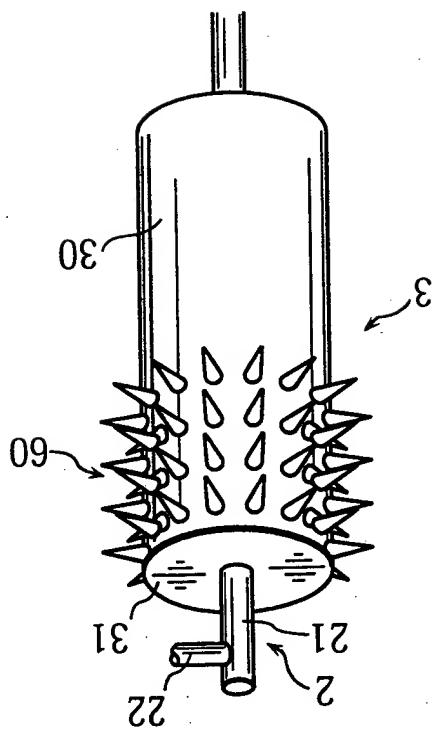


Fig. 5B

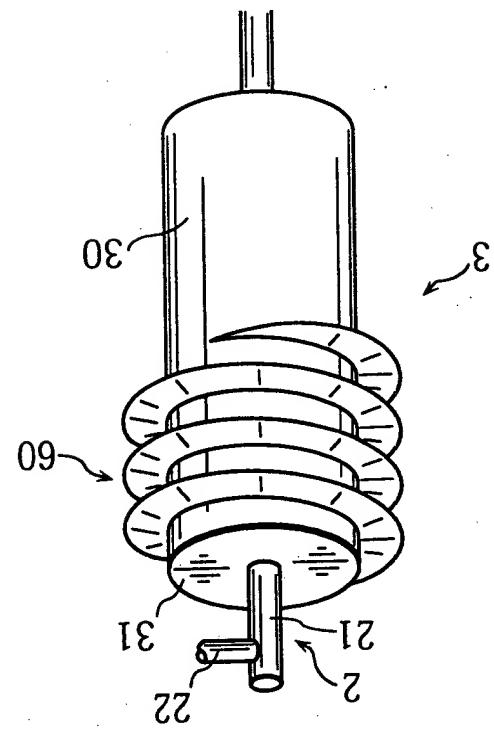


Fig. 5A

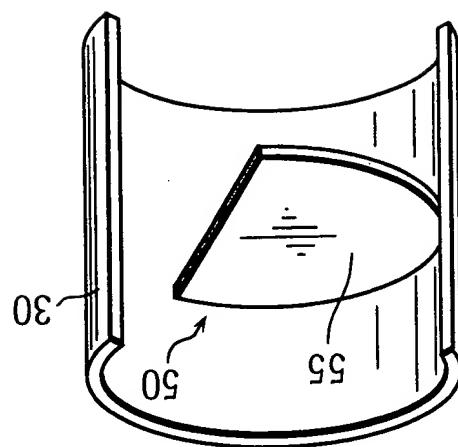


FIG. 6D

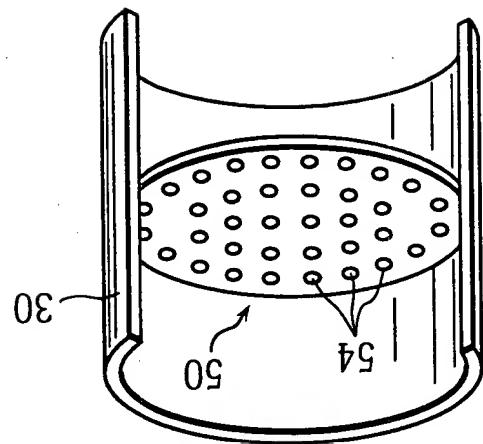


FIG. 6C

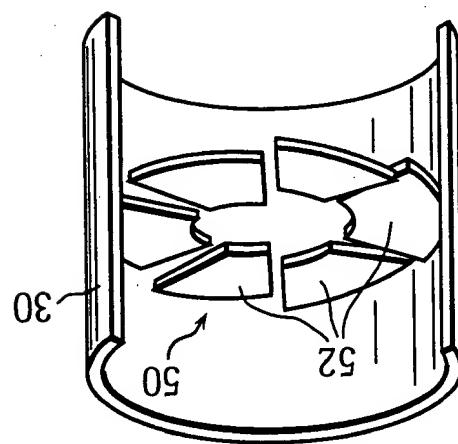


FIG. 6B

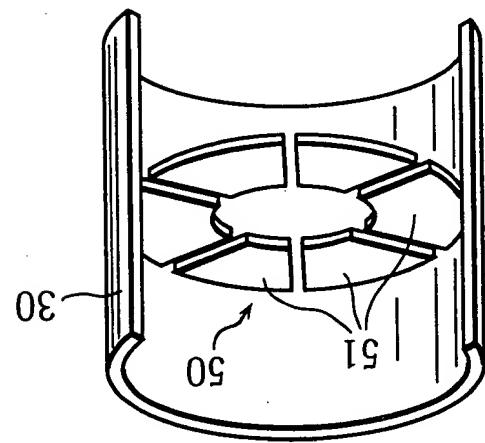
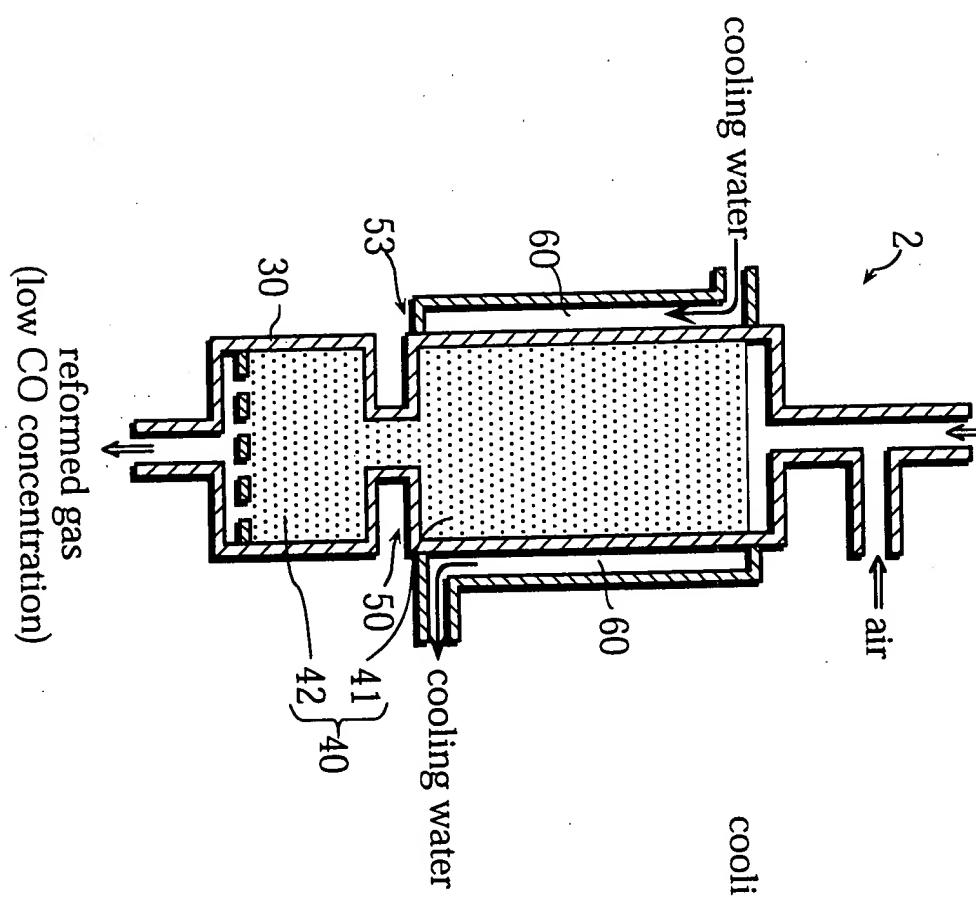


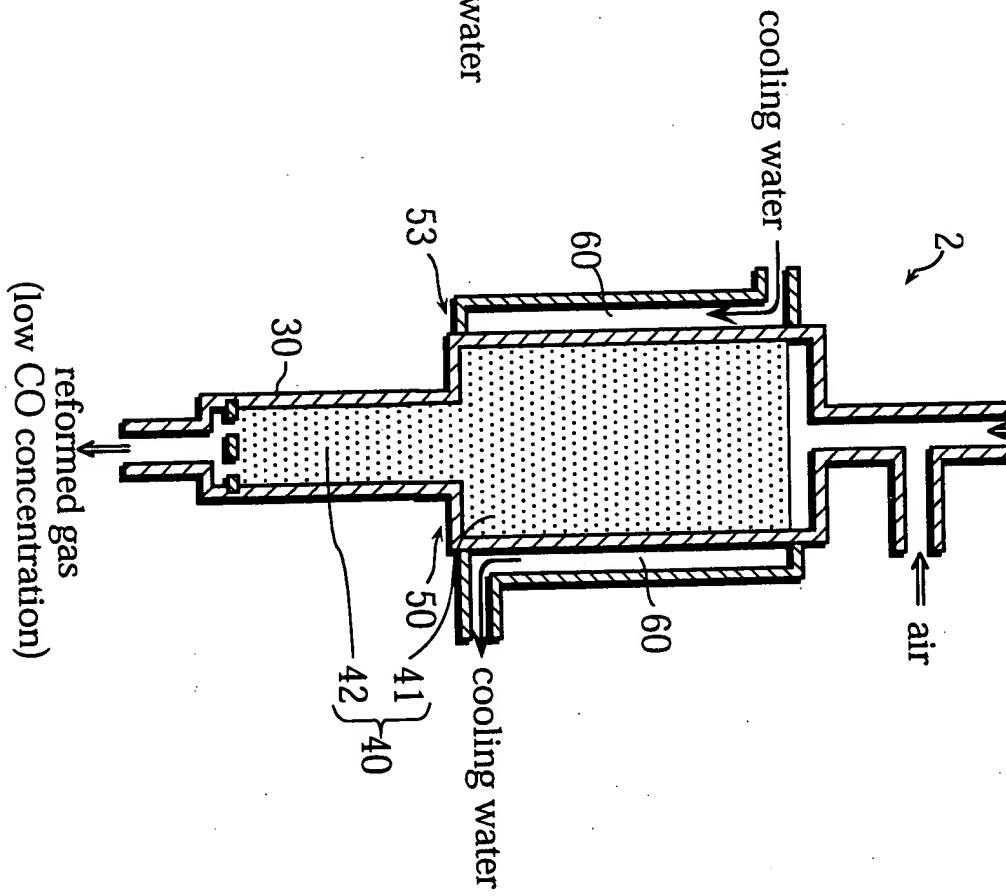
FIG. 6A

FIG. 7A



reformed gas
(low CO concentration)

FIG. 7B



reformed gas
(low CO concentration)

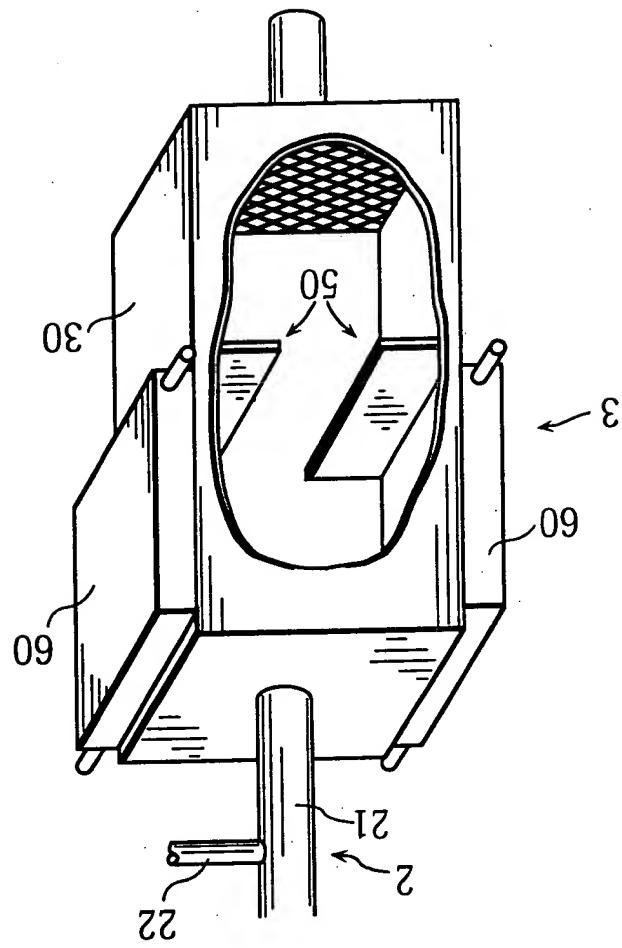


Fig. 8

Fig. 9

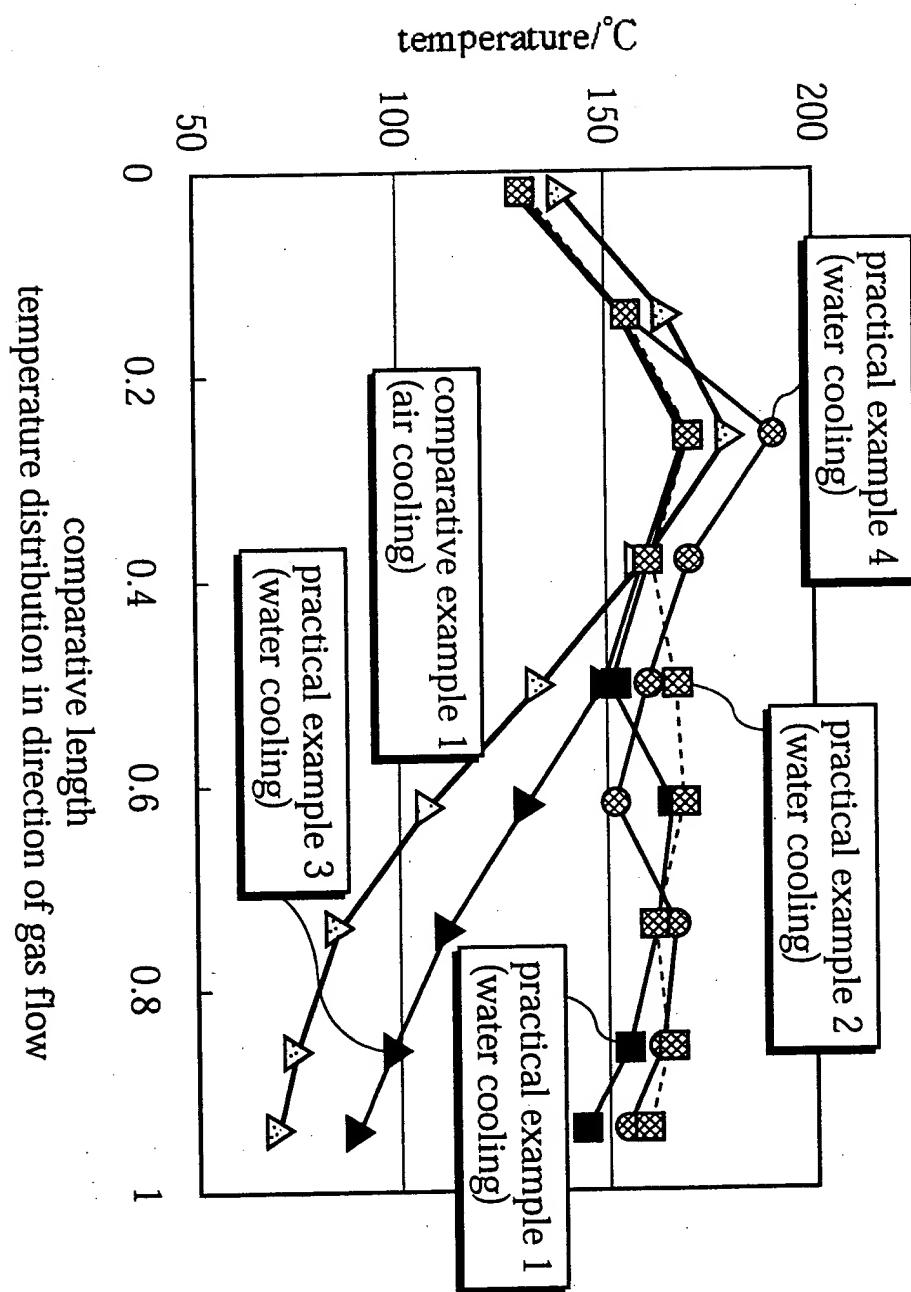


Fig. 10

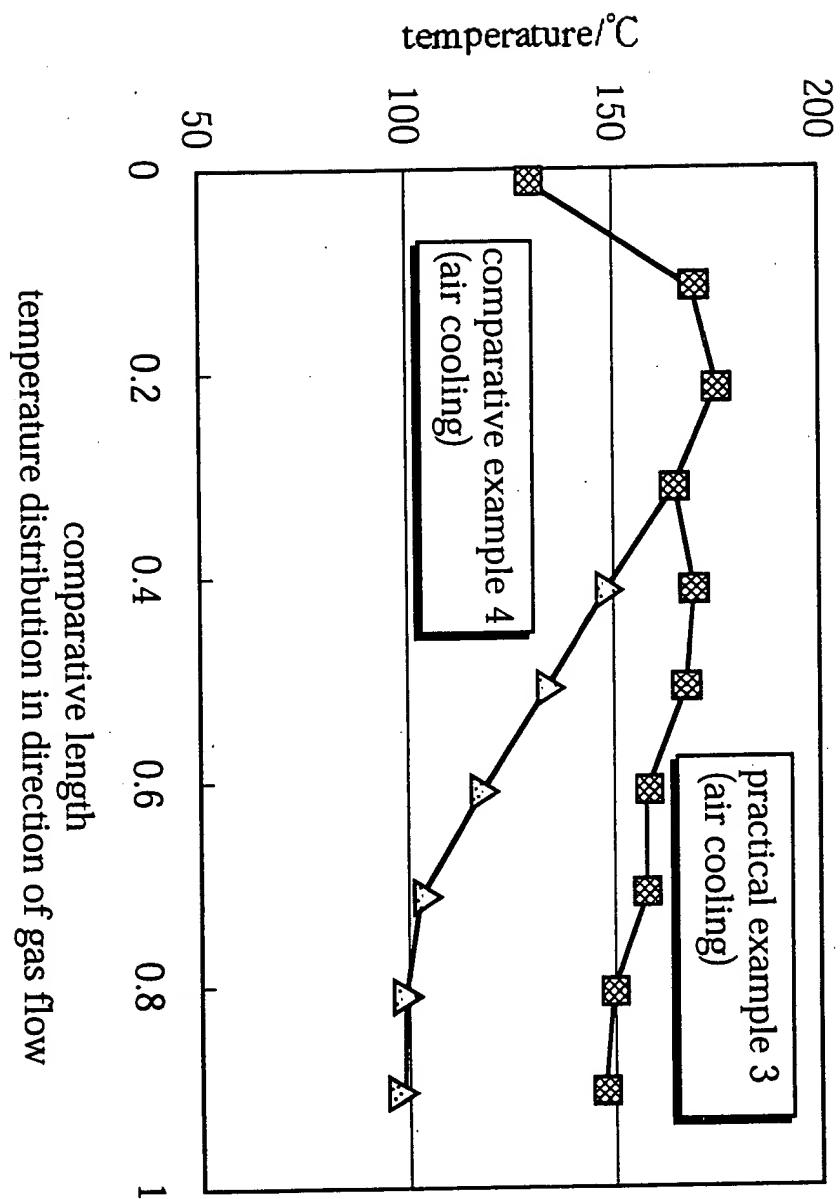


table 1

	L/D	cooling unit type	O2/CO ratio	blending unit	CO concentration
practical example 1	7	water cooling($L_3/L_1=0.6$)	1.7	one positions	6ppm
practical example 2	7	water cooling($L_3/L_1=0.6$)	1.7	two positions	3ppm
practical example 3	56	air cooling(whole area)	1.7	three positions	6ppm
practical example 4	7	water cooling($L_3/L_1=0.6$)	1.7	two positions	35ppm
comparative example 1	7	air cooling(whole area)	1.0	none	4000ppm
comparative example 2	7	air cooling(whole area)	1.7	none	
comparative example 3	7	water cooling($L_3/L_1=0.6$)	1.7	none	6500ppm
comparative example 4	56	air cooling(whole area)	1.3	none	